



DEPARTMENT OF DEFENSE (AFHSC) Seasonal Influenza Surveillance Summary

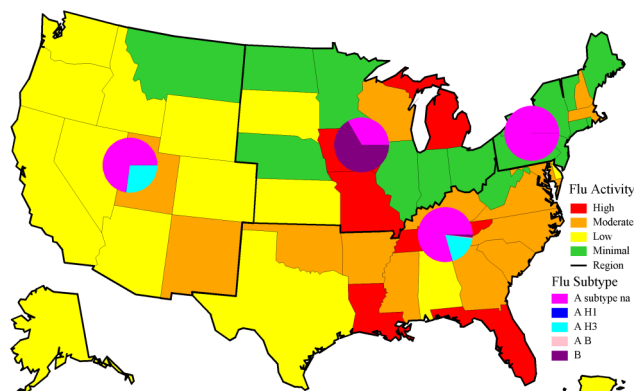
Northern Command -- Week 49 (30 Nov—06 Dec 2014)



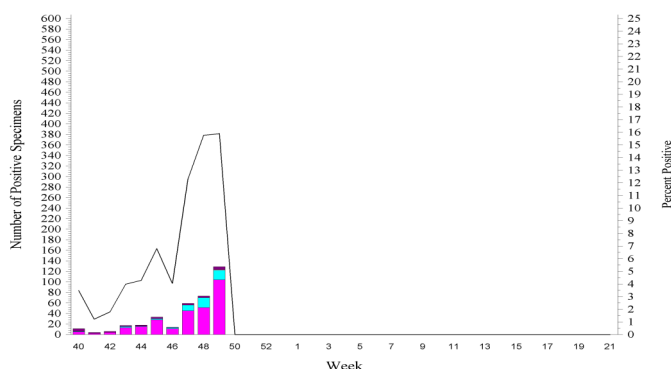
In NORTHCOM during week 49^{1,2}

- ♦ ILI and P&I activity in service members continued to increase and was above baseline and previous seasons.
- ♦ The cumulative percentages of positive lab tests continues to steadily increase and were 8.3% for service members and 9.4% for dependents.
- ♦ There has been a noticeable increase in the number of A/H3N2 cases among service members and dependents. In service members, the case count increased to 56 from 18 from weeks 48 to 49 and in dependents, cases jumped from 84 to 237.
- ♦ There were 3 RME's among service members (all from Texas) and 3 from dependents (Texas, South Dakota, and Washington).

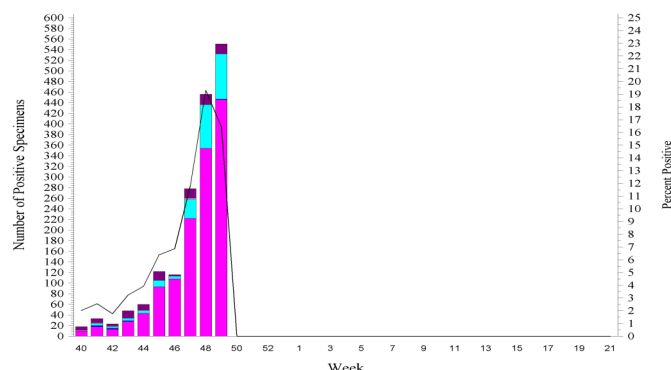
NORTHCOM Service Member, Influenza Activity and Virus Subtype



NORTHCOM Service Member, Influenza Positive Tests Reported to AFHSC



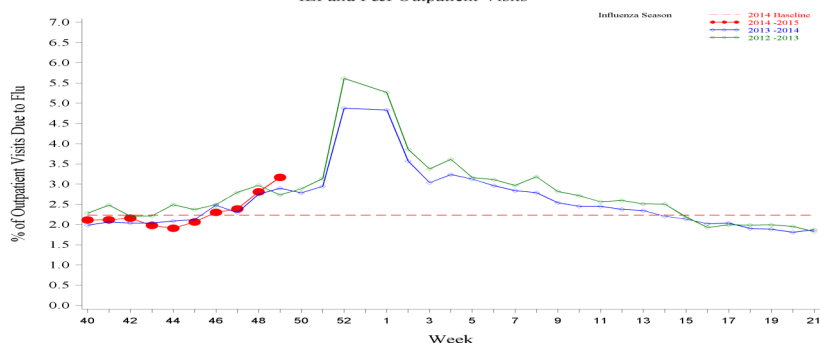
NORTHCOM Beneficiary, Influenza Positive Tests Reported to AFHSC



2014 – 2015 NORTHCOM Season Totals^{1,2}

	A/H1N1	A/H3N2	A/Untyped	Flu B	% Positive
Service Members	0	56	278	29	8.3
Dependents	6	237	1335	120	9.4

NORTHCOM Service Member, 2014-2015 and Previous 2 Influenza Seasons
ILI and P&I Outpatient Visits



Immunization Coverage for all Commands (As of 05 December 14)

Active Component Only	All Services	Army	Marines	Navy	Coast Guard	Air Force
Seasonal Influenza Vaccine	86%	87%	82%	86%	92%	92%

Sources: Immunization Healthcare Branch (DHA), ARMY-MEDPROS, MARINES-MRRS, NAVY-MRRS, COAST GUARD-MRRS, AIR FORCE-AFCITA

- ♦ NHRC laboratory-confirmed influenza cases, US Military Basic Trainees:

	Week 49 ³				2014 – 2015 Recruit Season Totals ³			
	A/H1N1	A/H3N2	A/unsubtyped	Flu B	A/H1N1	A/H3N2	A/unsubtyped	Flu B
Ft Benning								
Ft Jackson								
Ft Leonard Wood								
NRTC Great Lakes		1				1		
Lackland AFB								
MCRD Parris Island								2
MCRD San Diego		1				2		
CGTC Cape May								
Total	0	2	0	0	0	3	0	2

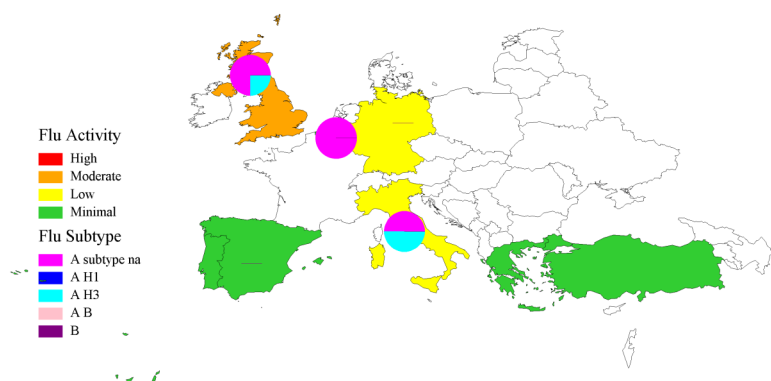
¹AFHSC, ²USAFSAM, ³NHRC, ⁴LRMC, ⁵PHCR-E, ⁶AFRIMS, ⁷NMRC-A, ⁸USAMRU-K, ⁹NAMRU-3, ¹⁰NAMRU-6

**European Command -- Week 49**

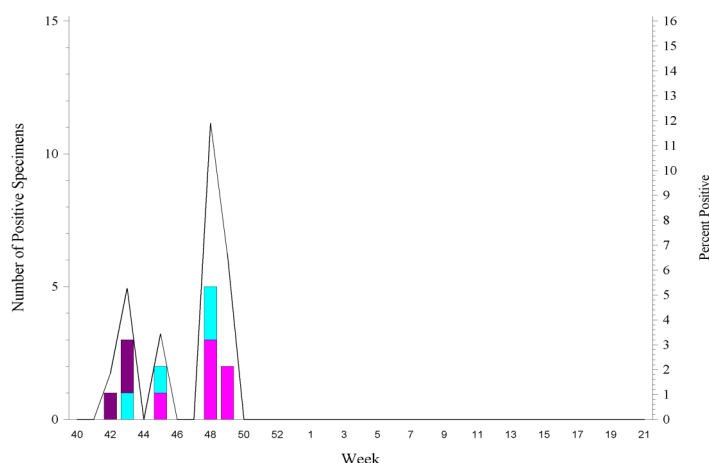
In EUROM during week 49^{1,4,5}

- ◆ Among service members, influenza activity was low.
- ◆ ILI and P&I activity remained stable and is above baseline.
- ◆ The percents of positive lab tests for service members and dependents remains low, 2.4% and 3%, respectively.

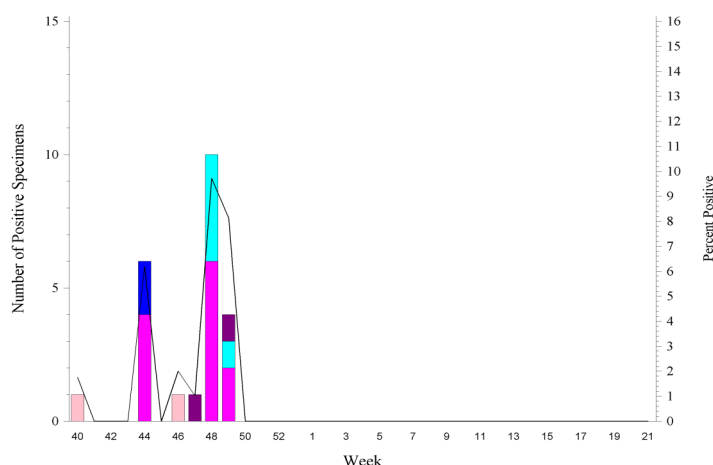
EUROM Service Member, Influenza Activity and Virus Subtype



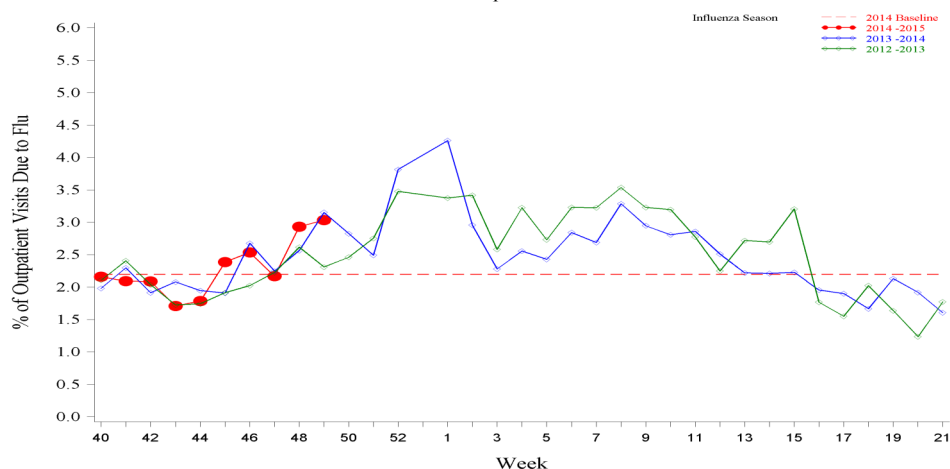
EUROM Service Member, Influenza Positive Tests Reported to AFHSC



EUROM Beneficiary, Influenza Positive Tests Reported to AFHSC



EUROM Service Member, 2014-2015 and Previous 2 Influenza Seasons
ILI and P&I Outpatient Visits



2014-2015 EUROM Season Totals^{1,4,5}

	A/H1N1	A/H3N2	A/Untyped	Influenza B	AB	% Positive
Service Members	0	4	6	3	0	2.4
Dependents	2	5	12	2	2	3.0

¹AFHSC, ²USAFSAM, ³NHRC, ⁴LRMC, ⁵PHCR-E, ⁶AFRIMS, ⁷NMRC-A, ⁸USAMRU-K, ⁹NAMRU-3, ¹⁰NAMRU-6

**Pacific Command -- Week 49**

In PACOM during week 49^{1,6,7}

- ◆ Influenza activity was minimal and ILI and P&I increased to baseline.
- ◆ Among service members, the majority of cases have been influenza A/unsubtyped.
- ◆ The percents positive for service members and dependents were 7.3% and 9.7%, respectively.
- ◆ There were 2 RME's among dependents in Japan.

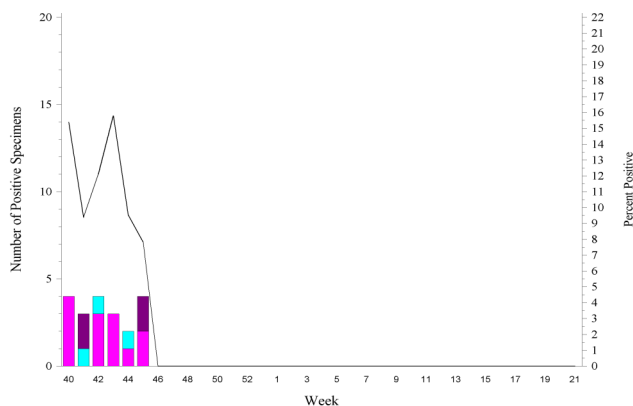
PACOM Service Member, Influenza Activity and Virus Subtype
South Korea and Japan



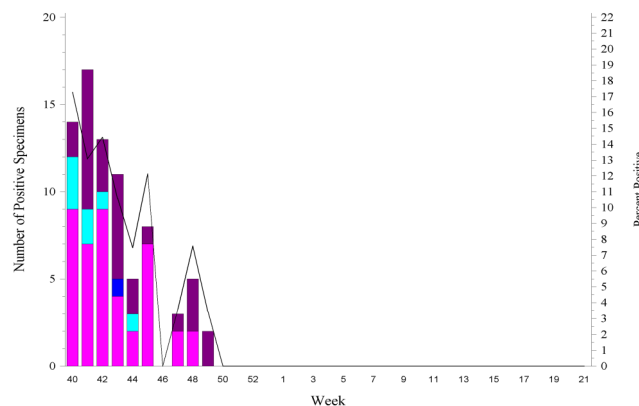
PACOM: GUAM and HI Influenza activity and HL7 Test Positive (MAP: SM+BN, 2 wks)

Area Name	Influenza Activity	HL7 Type				
		A(H1)	A(H3)	A Untyped	B	AB
GUAM	1:Minimal	0	0	0	4	0
HI	2:Low	0	0	1	1	0

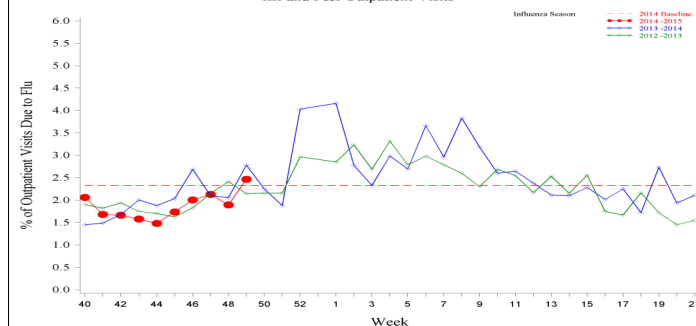
PACOM Service Member, Influenza Positive Tests Reported to AFHSC



PACOM Beneficiary, Influenza Positive Tests Reported to AFHSC



PACOM Service Member, 2014-2015 and Previous 2 Influenza Seasons
ILI and P&I Outpatient Visits



2014-2015 PACOM Season Totals^{1,6,7}

	A/H1N1	A/H3N2	A/Untyped	Flu B	% Positive
Service Members	0	3	13	4	7.3
Dependents	1	7	42	28	9.7

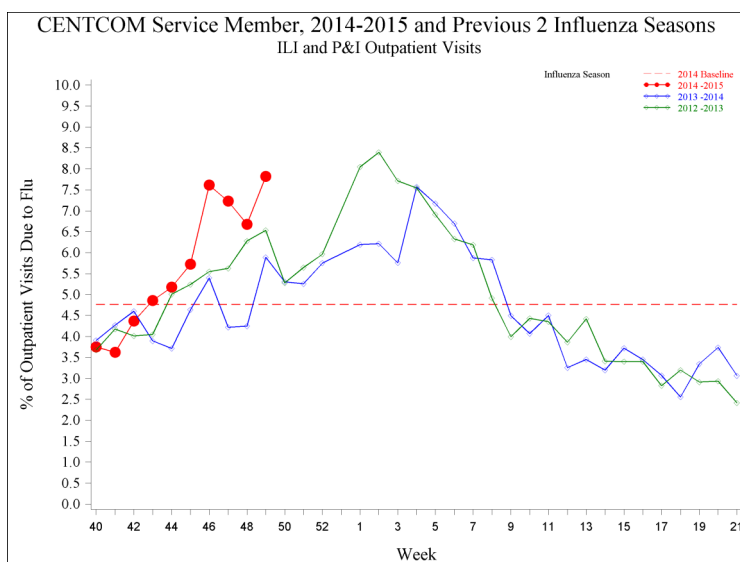
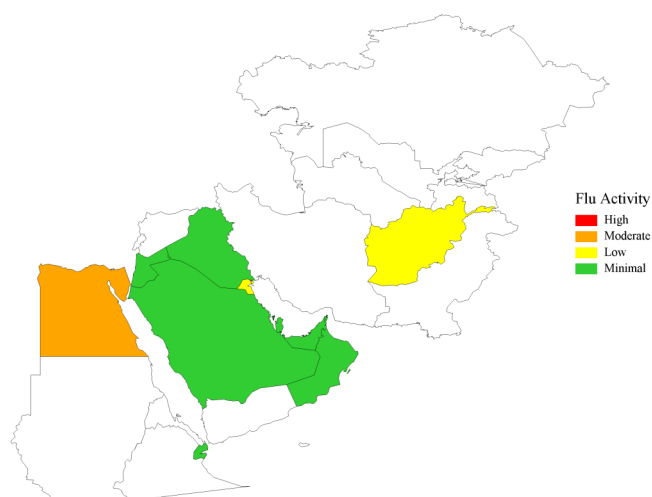
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**Central and Africa Commands -- Week 49**

In CENTCOM and AFRICOM during week 49^{1,8,9}

- ♦ ILI and P&I activity increased this week and is above baseline and previous seasons.

CENTCOM, Influenza Activity

**Southern Command -- Week 49
(Local Nationals Only)**

In SOUTHCOM during week 49¹⁰

- ♦ Among local nationals in SOUTHCOM, there was a marked increase in cases of A/H3N2 in weeks 46-49.
- ♦ The WHO reports that most ILI and SARI activity is caused by respiratory syncytial virus (RSV).

2014-2015 SOUTHCOM Season Totals Among Local Nationals ¹⁰				
	A/H1N1	A/H3N2	A/Untyped	Influenza B
Colombia	0	10	0	4
Peru	2	104	0	26

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Description:

Maps, figures and tables are stratified by Combatant Commands (CCMD). The map provides a measure of influenza activity by state or country within each CCMD for the past two weeks for service members. Influenza activity is defined by the percentage of outpatient visits associated with influenza (defined as having an Influenza-like Illness (ILI) or Pneumonia and Influenza (P&I) diagnosis) for each week compared to baseline levels of influenza activity. Additionally, a pie graph by US region or country is generated to display the distribution of influenza types and subtype identified from positive laboratory tests for the past two weeks combined.

Influenza activity: Percentage of Outpatient Visits Associated with Influenza:

The percentage of all outpatient visits for influenza (defined as having an ILI or P&I diagnosis) is calculated each week for (1) all service members, regardless of component and (2) all other DoD beneficiaries. This data is presented as a map of the past two weeks' activity and a figure to display the entire season's data compared to the two prior seasons and baseline. For the map, the activity level compares the mean reported percent of visits due to influenza for the past two weeks to the mean reported percent of visits due to influenza during baseline weeks. Baseline weeks are defined as non-influenza weeks (weeks 22-39) over the past 3 years.

There are four activity levels reported on each map. The activity level corresponds to the number of standard deviations (SD) below, at or above the mean for the current week compared to the mean of the baseline weeks. Activity levels are classified as minimal, low, moderate, and high. Minimal activity corresponds to an influenza percentage that is less than 2 SD above the mean. Low activity corresponds to an influenza percentage that is equal to or greater than 2 SD above the mean, but less than 4 SD above the mean. Moderate activity corresponds to an influenza percentage that is equal to or greater than 4 SD above the mean, but less than 6 SD above the mean. High activity corresponds to an influenza percentage that is equal to or greater than 6 SD above the mean.

Influenza Positive Tests:

Only lab results from PCR or viral culture assays are reported. Influenza types/subtypes are categorized as influenza A not subtyped (A subtype na), influenza A/H1 (A H1), influenza A/H3 (A H3), influenza A and B co-infection (A B), and influenza B (B).

Map: Each US region or country with available data contains a pie chart that displays the distribution of influenza types and subtypes for that area for the past two weeks combined. Two weeks of data are combined instead of using just the current week's data due to delays in reporting of laboratory results.

Figure and Table: Each week, using the total number of influenza laboratory tests performed and the positive test results, the proportions positive for each serotype of influenza are calculated for service members and dependents separately.

Data Sources and Case Definitions:

Medical encounter and demographic data from the Armed Forces Health Surveillance Center's (AFHSC) Defense Medical Surveillance System (DMSS) are used to generate this report. In addition, health-level 7 (HL-7) laboratory data is provided by the Navy and Marine Corps Public Health Center (NMCPHC) EpiData Center Division. ICD-9 codes from outpatient encounters are used to identify influenza activity. The outcome of influenza is defined using the combined codes for ILI (79.99, 382.9, 460, 461.9, 465.8, 465.9, 466.0, 486, 487.0, 487.1, 487.8, 488, 490, 780.6, or 786.2) and P&I (480-488). An individual can only be counted as a case once per week.

NORTHCOM Regions:

The regions on the NORTHCOM map (bold, black outlines) are defined using the four US Census regions, with the exception of Hawaii and Guam which are a part of PACOM. *Northeast*: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont, New Jersey, New York, Pennsylvania, Puerto Rico, and the U.S. Virgin Islands. *South*: Delaware, the District of Columbia, Maryland, Virginia, West Virginia, Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee, Arkansas, Louisiana, Texas., and Oklahoma. *Midwest*: Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin, Iowa, Kansas, Missouri, Nebraska, North Dakota, and South Dakota. *West*: New Mexico, Colorado, Montana, Utah, Wyoming, Arizona, California, Nevada, Alaska, Idaho, Oregon, and Washington.

(All data are preliminary and subject to change as updated data is received)

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